

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

Claims 1-23 (Cancelled).

24. (New) A wireless communication apparatus comprising:
a monitor that monitors, in each frame, the number of
transmission queuing cells that uplink storages and downlink
storages of a plurality of communication users each store; and
an allocator that allocates, in each frame, unit sub-slots
to the transmission queuing cells according to the number of
transmission queuing cells in each storage.

25. (New) The wireless communication apparatus according
to claim 24, wherein, following a constant regulation, the
allocator allocates the unit sub-slots within a range that can be
stored in a unit frame.

26. (New) The wireless communication apparatus according
to claim 25, wherein the constant regulation comprises that the
unit sub-slots are allocated in equal amounts to the transmission
queuing cells in the uplink and downlink storages and that the

transmission queuing cells to which the unit sub-slots are allocated are deleted from the storages.

27. (New) The wireless communication apparatus according to claim 26, wherein the constant regulation comprises that a first circulation is repeated such that, upon an allocation occasion to the uplink storages and downlink storages of the plurality of users, a unit sub slot is allocated to a transmission queuing cell with a longest transmission queuing time in each storage..

28. (New) The wireless communication apparatus according to claim 27, wherein the constant regulation comprises that the unit sub-slot is allocated preferentially to a particular transmission queuing cell in each storage.

29. (New) The wireless communication apparatus according to claim 28, wherein the constant regulation comprises that, between each first circulation, a second circulation is provided such that, upon an allocation occasion to the uplink storages and downlink storages of the plurality of users, the unit sub-slot is allocated only to the particular transmission queuing cell having the longest transmission queuing time in each storage.

30. (New) The wireless communication apparatus according to claim 29, further comprising an arranger that divides all unit sub-slots allocated to transmission queuing cells for uplink and downlink into an uplink sub-slot group and a downlink sub-slot group, groups the unit sub-slots by the communication users to which said unit sub-slots are allocated and makes channels, and arranges the channels in the unit frame as uplink and downlink user channels.

31. (New) The wireless communication apparatus according to claim 30, wherein the allocator comprises a comparator that performs a comparison between the total number of particular transmission queuing cells in each storage and a threshold, and performs an allocation according to a result of the comparison.

32. (New) The wireless communication apparatus according to claim 30, wherein the allocator comprises a comparator that performs a comparison between transmission queuing times of particular transmission queuing cells in each storage and a threshold, and performs an allocation according to a result of the comparison.

33. (New) The wireless communication apparatus according to claim 31, wherein the comparator performs the comparison only in storages that store the particular transmission queuing cells.

34. (New) The wireless communication apparatus according to claim 32, wherein the comparator performs the comparison only in storages that store the particular transmission queuing cells.

35. (New) The wireless communication apparatus according to claim 33, wherein the comparator sets the threshold based on a quality requirement of the particular transmission queuing cells.

36. (New) The wireless communication apparatus according to claim 34, wherein the comparator sets the threshold based on a quality requirement of the particular transmission queuing cells.

37. (New) The wireless communication apparatus according to claim 24, wherein each frame comprises a terminal transmission queuing reporting signal part and a user information part, and, in the terminal transmission queuing reporting signal part, transmission queuing situation reporting signals corresponding to respective wireless terminals are each allocated a dedicated control channel.

38. (New) The wireless communication apparatus according to claim 37, wherein a second control channel is provided besides the dedicated control channels, and the control channels are used according to a delay characteristic requirement of each wireless terminal.

39. (New) A base station provided with a wireless communication apparatus, said wireless communication apparatus comprising:

a monitor that monitors, in each frame, the number of transmission queuing cells that uplink storages and downlink storages of a plurality of communication users each store; and an allocator that allocates, in each frame, unit sub-slots to the transmission queuing cells according to the number of transmission queuing cells in each storage.

40. (New) A communication terminal apparatus performing wireless communications with a base station apparatus provided with a wireless communication apparatus, said wireless communication apparatus comprising:

a monitor that monitors, in each frame, the number of transmission queuing cells that uplink storages and downlink storages of a plurality of communication users each store; and

an allocator that allocates, in each frame, unit sub-slots to the transmission queuing cells according to the number of transmission queuing cells in each storage.

41. (New) The communication terminal apparatus according to claim 40, wherein the communication terminal apparatus reports the number of transmission queuing cells to the base station.

42. (New) A wireless communication method, comprising:
monitoring, in each frame, the number of transmission queuing cells that uplink storages and downlink storages of a plurality of communication users each store; and
allocating, in each frame, unit sub-slots to the transmission queuing cells according to the number of transmission queuing cells in each storage.

43. (New) The wireless communication method according to claim 42, further comprising:
performing a comparison between the total number of particular transmission queuing cells in each storage and a threshold; and
performing then allocation according to a result of the comparison.

44. (New) The wireless communication apparatus according to claim 42, further comprising:

performing a comparison between transmission queuing times of particular transmission queuing cells in each storage and a threshold; and

performing the allocation according to a result of the comparison.

45. (New) The wireless communication method according to claim 43, further comprising:

dividing all unit sub-slots allocated to transmission queuing cells for uplink and downlink into an uplink sub-slot group and a downlink sub-slot group;

grouping the unit sub-slots by the communication users to which said unit sub-slots are allocated and making channels; and

arranging the channels in a unit frame as uplink and downlink user channels and reporting the arrangement to the communication users.

46. (New) The wireless communication method according to claim 44, further comprising:

dividing all unit sub-slots allocated to transmission queuing cells for uplink and downlink into an uplink sub-slot group and a downlink sub-slot group;

grouping the unit sub-slots by the communication users to which said unit sub-slots are allocated and making channels; and

arranging the channels in a unit frame as uplink and downlink user channels and reporting the arrangement to the communication users.